# Victor M. Reyes Espinoza

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## EDUCATION

- **Massachusetts Institute of Technology** — Cambridge, MA
  *Bachelor of Science in Computer Science and Engineering, Legal Studies, GPA: 4.6*  Aug. 2017 – Exp. June 2021

## EXPERIENCE

- **Google** — Mountain View, CA
  *Software Engineering Intern - Play Ads Serving Team*  June 2019 – Currently
  - **Server Front-end**: Augmented device to server communication protocol by providing more user context to the server. Device side communication logic was written in Java.
  - **Ads Back-end**: Utilized increased context to implement a filter that increased the quality of ads shown and reduced the amount of ads dropped by 19 million a day. New ads server filtering logic was written in C++.
  - **Data Visualization**: Sped up team's access to vital monitoring information by reorganizing the navigational structure of dashboards. Made graphs readable by implementing filtering and preprocessing of noisy data.
  - **Launch Stability**: Ensured new feature had a stable launch by performing a subset experiment and implementing unit tests and end to end tests. Tests were written in Python.
  - **ML Fairness**: Discovered source of machine learning bias in a project and provided feedback on how to resolve it.

- **Google** — Mountain View, CA
  *Engineering Practicum Intern - ChromeOS Team*  June 2018 – Sep. 2018
  - **Linux Build Systems**: Updated over 20 packages on ChromeOS and resolved cross-compilation issues.
  - **Data Visualization**: Wrote a Python script to automatically create dependency graphs with 1 command.
  - **Open Source**: Contributed to the ChromeOS project to prepare for the integration of the FWUPD package.

- **Davis Labs @ MIT** — Cambridge, MA
  *Undergraduate Research Assistant*  Dec. 2017 – June 2018
  - **Data Science**: Developed software to parse three dimensional mass spectroscopy data.
  - **Data Visualization**: Implemented Matplotlib to create graphs and visualize experiment data.
  - **Pyteomics**: Utilized Pyteomics library to facilitate the storage and indexing of spectroscopy data.

- **University of California, Irvine** — Irvine, CA
  *ASPIRE Team Lead Developer*  July 2016 – Aug. 2016
  - **Project Lead**: Led the technical development and fabrication of an infrared controlled Pandora internet radio.
  - **Linux LIRC**: Implemented the Linux LIRC libraries to enable remote control interface.
  - **Fabrication Technologies**: Utilized computer aided design, laser-cutter, and 3-D printing technologies in UCI's FABWorks Lab to rapidly prototype IOT project.

## PROJECTS

- **RSML Toolkit**: Python library for MMORPG economy data retrieval, analysis, and neural net forecasting. Utilizes Keras to create, train, and evaluate a neural net model. Utilizes BeautifulSoup to scrape an online wiki for item price data. Preprocesses data through Pandas dataframes.
- **ITD?**: Python project demonstrating various machine learning methods for facial recognition in pictures.
- **terminal-stock-ticker**: Terminal based Python utility that displays real-time stock prices and provides insights on investment returns. Utilizes BeautifulSoup to scrape for stock quotes.
- **StayHacking**: 24 hour hackathon focused on immigrant labor equality. Led full-stack development of Glassroots homepage. Utilized Bootstrap and Javascript to create interactive and engaging website with one-click workflow.
- **Google CSSI**: 3 week intensive coding boot-camp on Python, Github, Javascript, HTML, CSS, Google Web APIs, and back-end services like AppEngine and DataStore. Designed and deployed an automatically generated site (vmreyes.info) to showcase photographs and life events. Implementation received a 95% on performance in Google's Lighthouse benchmark.

## RELEVANT COURSES

- Algorithms, Computation Structures, Programming Fundamentals, Microeconomics, Multi-variable Calculus, Constitutional Law